



FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0609.4560002/JAG/KRM/DJN	APPLICATION NO. 09/720,086
	APPLICANT Li et al.	
	102(e) July 23, 2001	GROUP 1642 1643

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
amb	AA1	5,578,716	11/26/1996	Szyf et al.			12/01/1993
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
amb	AL1	WO 92/06985	04/30/1992	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

amb	AR	1	Aoki, A., et al., "Enzymatic properties of de novo-type mouse DNA (cytosine-5) methyltransferases," Nucl. Acids Res. 29:3506-3512, Oxford University Press (September 2001)
↓	AS	1	Ariel, M., et al., "Gamete-specific methylation correlates with imprinting of the murine Xist gene," Nat. Genet. 9:312-315, Nature Publishing Group (1995)
↓	AT	1	Bachman, K.E., et al., "Dnmt3a and Dnmt3b Are Transcriptional Repressors That Exhibit Unique Localization Properties to Heterochromatin," J. Biol. Chem. 276:32282-32287, The American Society for Biochemistry and Molecular Biology, Inc. (August 2001)

EXAMINER amb Harris	DATE CONSIDERED 07/27/2007
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1642 1643

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

amb	AR	2	Baylin, S.B., et al., "Alterations in DNA Methylation: A Fundamental Aspect of Neoplasia," Adv. Cancer Res. 72:141-196, Academic Press (February 1998)
I	AS	2	Bestor, T., et al., "Cloning and Sequencing of a cDNA Encoding DNA Methyltransferase of Mouse Cells," J. Mol. Biol. 203:971-983, Academic Press (1988)
V	AT	2	Bestor, T.H., "Activation of mammalian DNA methyltransferase by cleavage of a Zn binding regulatory domain," EMBO J. 11:2611-2617, Oxford University Press (1992)

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amb	AR	3	Brandeis, M., et al., "The ontogeny of allele-specific methylation associated with imprinted genes in the mouse," <i>EMBO J.</i> 12:3669-3677, Oxford University Press (1993)
↓	AS	3	Brockdorff, N., "Convergent themes in X chromosome inactivation and autosomal imprinting," in <i>Genomic Imprinting</i> , Reik, W., and Surani, A., eds., Oxford University Press, Oxford, UK, pp. 191-210 (December 1997)
✓	AT	3	Chaillet, J.R., et al., "Parental-Specific Methylation of an Imprinted Transgene in Established during Gametogenesis and Progressively Changes during Embryogenesis," <i>Cell</i> 66:77-83, Cell Press (1991)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>anh</i>	AR	<u>4</u>	Chen, T., et al., "A Novel Dnmt3a Isoform Produced from an Alternative Promoter Localizes to Euchromatin and Its Expression Correlates with Active de Novo Methylation," J. Biol. Chem. 277:38746-38754, The American Society for Biochemistry and Molecular Biology, Inc. (October 2002)
	AS	<u>4</u>	Cheng, X., "Structure and function of DNA methyltransferases," Annu. Rev. Biophys. Biomol. Struct. 24:293-318, Annual Reviews, Inc. (1995)
	AT	<u>4</u>	Finnegan, E.J., and Dennis, E.S., "Isolation and identification by sequence homology of a putative cytosine methyltransferase from Arabidopsis thaliana," Nucl. Acids Res. 21:2383-2388, Oxford University Press (1993)

EXAMINER <i>Amfarris</i>	DATE CONSIDERED <i>07/27/07</i>
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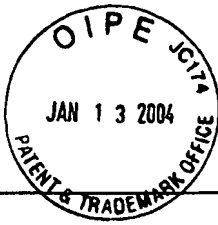
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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

amb	AR	5	Flynn, J., et al., "Murine DNA Cytosine-C <sup>5</sup> Methyltransferase: Pre-Steady- and Steady-State Kinetic Analysis with Regulatory DNA Sequences," <i>Biochem.</i> 35:7308-7315, American Chemical Society (1996)
↓	AS	5	Flynn, J., et al., "DNA Binding Discrimination of the Murine DNA Cytosine-C <sup>5</sup> Methyltransferase," <i>J. Mol. Biol.</i> 279:101-116, Academic Press (May 1998)
↓	AT	5	Hata, K., et al., "Dnmt3L cooperates with the Dnmt3 family of de novo DNA methyltransferases to establish maternal imprints in mice," <i>Develop.</i> 129:1983-1993, Company of Biologists Ltd. (April 2002)

EXAMINER <i>Amel Harris</i>	DATE CONSIDERED 07/27/07
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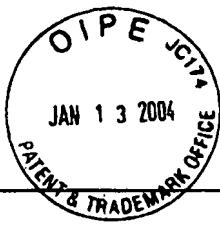
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

and	AR	6	Jähner, D., and Jaenisch, R., "DNA Methylation in Early Mammalian Development," in <i>DNA Methylation. Biochemistry and Biological Significance</i> , Razin, A., eds., Springer-Verlag, New York, NY, pp. 189-219 (1984)
I	AS	6	Jentsch, S., et al., "DNA methyltransferases affecting the sequence 5'CCGG," <i>Nucl. Acids Res.</i> 9:2753-2759, IRL Press (1981)
✓	AT	6	Jones, P.A., and Gonzalgo, M.L., "Altered DNA methylation and genome instability: A new pathway to cancer?," <i>Proc. Natl. Acad. Sci. USA</i> 94:2103-2105, National Academy of Sciences (March 1997)

EXAMINER <i>Am Harris</i>	DATE CONSIDERED 07/27/07
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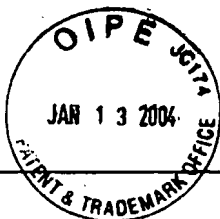
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
amb	AR	2	Klimašauskas, S., et al., "The sequence specificity domain of cytosine-C5 methylases," Nucl. Acids Res. 19:6183-6190, IRL Press at Oxford University Press (1991)
↓	AS	2	Kumar, S., et al., "The DNA (cytosine-5) methyltransferases," Nucl. Acids Res. 22:1-10, Oxford University Press (1994)
↓	AT	2	Laird, P.W., and Jaenisch, R., "The Role of DNA Methylation in Cancer Genetics and Epigenetics," Annu. Rev. Genet. 30:441-464, Annual Reviews Inc. (1996)
EXAMINER	amb		DATE CONSIDERED 07/27/07

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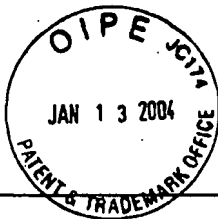
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>anh</i>	AR	<u>8</u>	Lauster, R., et al., "Cytosine-specific Type II DNA Methyltransferases. A Conserved Enzyme Core with Variable Target-recognizing Domains," <i>J. Mol. Biol.</i> 206:305-312, Academic Press Ltd. (1989)
<i>↓</i>	AS	<u>8</u>	Lei, H., et al., "De novo DNA cytosine methyltransferase activities in mouse embryonic stem cells," <i>Development</i> 122:3195-3205, The Company of Biologists Ltd. (1996)
<i>✓</i>	AT	<u>8</u>	Leonhardt, H., et al., "A Targeting Sequence Directs DNA Methyltransferase to Sites of DNA Replication in Mammalian Nuclei," <i>Cell</i> 71:865-873, Cell Press (1992)
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Li, E., et al., "Targeted Mutation of the DNA Methyltransferase Gene Results in Embryonic Lethality," Cell 69:915-926, Cell Press (1992)
	AS	2	Li, E., "Role of DNA methylation in mammalian development," in <i>Genomic Imprinting</i> , Reik, W., and Surani, A. eds., Oxford University Press, Oxford, UK, pp. 1-20 (December 1997)
	AT	2	Malagnac, F., et al., "A Gene Essential for De Novo Methylation and Development in Ascombolus Reveals a Novel Type of Eukaryotic DNA Methyltransferase Structure," Cell 91:281-290, Cell Press (October 1997)

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>auth</i>	AR	<u>10</u>	Narayan, A., et al., "Hypomethylation of Pericentromeric DNA in Breast Adenocarcinomas," <i>Int. J. Cancer</i> 77:833-838, Wiley-Liss, Inc. (September 1998)
<i>↓</i>	AS	<u>10</u>	Okano, M., et al., "Dnmt2 is not required for de novo and maintenance methylation of viral DNA in embryonic stem cells," <i>Nucl. Acids Res.</i> 26:2536-2540, Oxford University Press (June 1998)
<i>↓</i>	AT	<u>10</u>	Okano, M., et al., "DNA Methyltransferases Dnmt3a and Dnmt3b Are Essential for De Novo Methylation and Mammalian Development," <i>Cell</i> 99:247-257, Cell Press (October 1999)

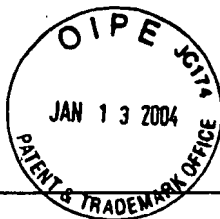
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*Amf Harris*

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<i>amb</i>	AR	<u>11</u>	Okano, M., and Li, E., "Genetic Analyses of DNA Methyltransferase Genes in Mouse Model System," J. Nutr. 132:2462S-2465S, American Institute of Nutrition (August 2002)
<i>↑</i>	AS	<u>11</u>	Pradhan, S., et al., "Baculovirus-mediated expression and characterization of the full-length murine DNA methyltransferase," Nucl. Acids Res. 25:4666-4673, Oxford University Press (November 1997)
<i>✓</i>	AT	<u>11</u>	Qu, G.-Z., et al., "Satellite DNA hypomethylation vs. overall genomic hypomethylation in ovarian epithelial tumors of different malignant potential," Mutat. Res. 423:91-101, Elsevier Science (January 1999)

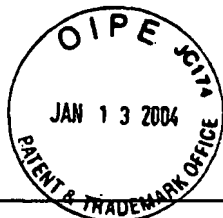
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*Amthor*

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amh	AR	12	Razin, A., and Cedar, H., "DNA methylation and embryogenesis," in <i>DNA Methylation: Molecular Biology and Biological Significance</i> , Jost, J.P., and Saluz, H.P., eds., Birkhäuser Verlag, Basel, Switzerland, pp. 343-357 (1993)
I	AS	12	Reid, G.K., et al., "Selective inhibition of DNA methyltransferase enzymes as a novel strategy for cancer treatment," <i>Curr. Opin. Mol. Ther.</i> 4:130-137, Current Drugs (April 2002)
V	AT	12	Robertson, K.D., et al., "The human DNA methyltransferases (DNMTs) 1, 3a and 3b: coordinate mRNA expression in normal tissues and overexpression in tumors," <i>Nucl. Acids Res.</i> 27:2291-2298, Oxford University Press (June 1999)

EXAMINER amh/abw

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amb	AR	13	Stöger, R., et al., "Maternal-Specific Methylation of the Imprinted Mouse <i>Igf2r</i> Locus Identifies the Expressed Locus as Carrying the Imprinting Signal," Cell 73:61-71, Cell Press (1993)
↑	AS	13	Szyf, M., et al., "Induction of Myogenic Differentiation by an Expression Vector Encoding the DNA Methyltransferase cDNA Sequence in the Antisense Orientation," J. Biol. Chem. 267:12831-12836, The American Society for Biochemistry and Molecular Biology, Inc. (1992)
✓	AT	13	Szyf, M., and Detich, N., "Regulation of the DNA Methylation Machinery and Its Role in Cellular Transformation," in <i>Progress in Nucleic Acid Research and Molecular Biology</i> , Moldave, K., ed., Academic Press, San Diego, CA, pp. 47-79 (August 2001)

EXAMINER <i>amb Harris</i>	DATE CONSIDERED <i>07/22/07</i>
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

anh	AR	14	Trasler, J.M., et al., "DNA Methyltransferase in Normal and <i>Dnmt</i> <sup>0</sup> / <i>Dnmt</i> <sup>+</sup> Mouse Embryos," <i>Dev. Dyn.</i> 206:239-247, Wiley-Liss, Inc. (1996)
↓	AS	14	Tremblay, K.D., et al., "A paternal-specific methylation imprint marks the alleles of the mouse <i>H19</i> gene," <i>Nat. Genet.</i> 9:407-413, Nature Publishing Group (1995)
↓	AT	14	Tucker, K.L., et al., "Germ-line passage is required for establishment of methylation and expression patterns of imprinted but not of nonimprinted genes," <i>Genes &amp; Develop.</i> 10:1008-1020, Cold Spring Harbor Laboratory Press (1996)

EXAMINER am Harris	DATE CONSIDERED 07/27/07
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0609.4560002/JAG/KRM/DJN	APPLICATION NO. 09/720,086
	APPLICANT Li et al.	
	102(e) July 23, 2001	GROUP 1642 1643

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
anh	AR	15	Yen, R.-W. C., et al., "Isolation and Characterization of the cDNA encoding human DNA methyltransferase," Nucl. Acids Res. 20:2287-2291, Oxford University Press (1992)
↓	AS	15	Yoder, J.A., and Bestor, T.H., "A candidate mammalian DNA methyltransferase related to pmtlp of fission yeast," Hum. Mol. Genet. 7:279-284, Oxford University Press (February 1998)
↓	AT	15	Zuccotti, M., and Monk, M., "Methylation of the mouse Xist gene in sperm and eggs correlates with imprinted Xist expression and paternal X-inactivation," Nat. Genet. 9:316-320, Nature Publishing Group (1995)
EXAMINER	Ann Harris		DATE CONSIDERED 07/27/07

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	APPLICANT Li et al.	
	102(e) July 23, 2001	GROUP 1542 1643

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>amb</i>	AR	16	International Search Report for International Application No. PCT/US99/14373, mailed December 10, 1999, European Patent Office, Netherlands
	AS		
	AT		
EXAMINER	<i>Antarvis</i>		DATE CONSIDERED 07/27/07

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